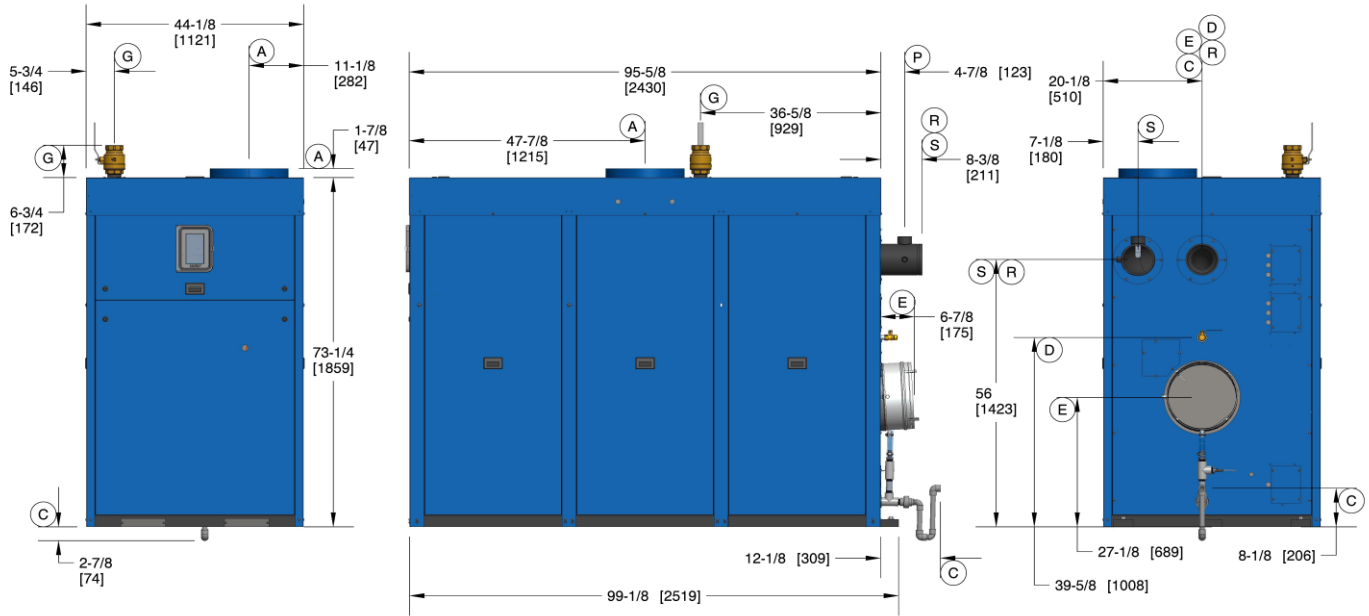


Rep Name: _____

Email: _____

Phone Number: _____

Date: _____ / _____ / _____



Primary dimensions are in inches. The secondary dimensions, [in brackets], are in millimeters.

This boiler requires Category IV venting (condensing-positive pressure) or Category II venting† (condensing -negative pressure as defined in ANSI Z223.1/NFPA 54/CSA-B.149 latest edition.

†Category II venting must include the optional combustion air damper

BOILER CONNECTIONS		ST-5000	ST-6000	ST-8000
A	Combustion Air Inlet		16" dia. stub	
C	Condensate Drain		3/4" CPVC	
E	Exhaust Vent		14" dia.	
F	Heat Exchanger Drain		3/4" hose	
G	Natural Gas		2-1/2" NPT-F	
H	Wiring Junction Boxes		inside cabinet	
P	Pressure Relief Valve		see list for options	
R	Boiler Return, Victaulic® clamp		6" grooved	
S	Boiler Supply, Victaulic® clamp		6" grooved	
X	Anchor Bolt Locations		(4) 5/8" Bolt Holes (2 inside cabinet)	

MODEL SELECTION		ST-5000	ST-6000	ST-8000
Boilers		<input type="checkbox"/> ST-5000	<input type="checkbox"/> ST-6000	<input type="checkbox"/> ST-8000
Fuel Options		<input type="checkbox"/> Natural Gas		
Min Inlet Gas Pressure		3.5" w.c.		
Max Inlet Gas Pressure		14" w.c.		
Max Input (BTU/hr)		4,999,999	6,000,000	8,000,000
Max Output (BTU/hr)		4,799,999	5,760,000	7,680,000
Boiler HP		149.3	179.2	238.9
Min Input (BTU/hr)		500,000	600,000	800,000
Min Output (BTU/hr)		485,000	582,000	768,000
Turndown Ratio		10:1		
Operating Weight		3700 lbs.	3700 lbs.	3800 lbs.
Shipping Weight		3200 lbs.	3200 lbs.	3300 lbs.
Boiler Water Content		60 gallons		
Shipping Dimensions		110" x 48" x 80"		
Power Supply		<input type="checkbox"/> 208-240V 3ph 60 Hz	<input type="checkbox"/> 440-480V 3ph 60 Hz	
Operating Current		25 Amps (240V)	15 Amps (480V)	
Recommended Minimum Circuit Capacity		30 Amps (240V)	15 Amps (480V)	

BOILER CONTROLS
ASME CSD-1 is standard
Complies with: GE GAP (IRI) guidelines GAP.4.1.0 and GAP.4.1.3
FM Global 6-4 Section 1.0
Main Gas Train with Dual Shut-off
Integrated Boiler Control, NURO Series
Operating Thermostat, 42°-195°F (5.6°-91°C)
High Limit Thermostat, Manual Reset, 100°-200°F (38°-93°C)
High Limit Thermostat, Auto Reset, Fixed 200°F (93°C)
High Exhaust Back Pressure Switch
Flow Switch, Paddle Type & LWCO, Probe Type
Combustion Air Proving Switch, Differential Pressure Type
Combustion Blower, Variable Speed, 8000 Watt

PRESSURE RELIEF VALVE	
Shipped Loose for Field Installation	
<input type="checkbox"/> 50 PSIG 2"x 2-1/2"	15-160 psi/0-250°F
<input type="checkbox"/> 60 PSIG 1-1/2"x 2"	15-160 psi/0-250°F
<input type="checkbox"/> 75 PSIG 1-1/2"x 1-1/2"	15-160 psi/0-250°F
<input type="checkbox"/> 80 PSIG 1-1/2"x 1-1/2"	15-160 psi/0-250°F
<input type="checkbox"/> 100 PSIG 1-1/4"x 1-1/4"	15-160 psi/0-250°F
<input type="checkbox"/> 125 PSIG 1-1/4"x 1-1/4"	15-160 psi/0-250°F
<input type="checkbox"/> 150 PSIG 1-1/4"x 1-1/4"	15-160 psi/0-250°F

A.S.M.E. SECTION IV DESIGN DATA			
	ST-5000	ST-6000	ST-8000
Max Pressure	160 PSIG		
Max Allowable Temperature	210°F		
Max Setpoint	185°F		
Heated Wet Surface Area	448.67 ft ²		
Flow Rate @ 20°FΔT	480 GPM	576 GPM	764 GPM
Min Flow Rate @ All Firing Rates (Flow Switch	134 GPM	161 GPM	218 GPM

RECOMMENDED CLEARANCE FOR SERVICE ACCESS				
Front - 24" / 36" **	Rear - 12"	Top - 36"	Left Side - 18"	Right Side - 0"

Notes:

- Victaulic is a registered trademark of Victaulic Company, Easton PA, USA

-Patterson-Kelley reserves the right to make changes at any time without notification

** ST8000 Front clearance is 36"